

**ABSTRACT**

A generator-motor (100) includes a control circuit (20). The control circuit (20) is provided on an end surface of a motor (50). The control circuit (20) includes a Zener diode (21), a capacitor (22), a U-phase arm (23), a V-phase arm (24), and a W-phase arm (25). The Zener diode (21), the capacitor (22), the U-phase arm (23), the V-phase arm (24), and the W-phase arm (25) are connected in parallel between a positive bus (L1) and a negative bus (L2). The Zener diode (21) absorbs a surge voltage applied to the capacitor (22), the U-phase arm (23), the V-phase arm (24), and the W-phase arm (25).